

Title (en)
Winding configuration of an electric machine

Title (de)
GEWINDEKONFIGURATION EINER ELEKTRISCHEN MASCHINE

Title (fr)
Configuration de bobinage d'une machine électrique

Publication
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Application
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Abstract (en)
In one aspect, a stator for an electric machine includes multiple conductive coils. Each coil defines a loop that extends axially through the elongate core, exits the core through an end face, and reenters the core through the end face. A first subset of the coils collectively form a first radial layer axially exterior the core and a third radial layer axially exterior the core. Each coil in the first subset resides in both the first layer and the third layer. A second subset of the coils collectively forms a second radial layer axially exterior the core and a fourth radial layer axially exterior the core. Each coil in the second subset resides in both the second layer and the fourth layer. In another aspect, an electric machine includes a stator that carries a conductive winding having multiple coils. A first subset of the coils are in a first configuration, and a second subset of the coils are in a second configuration. In some implementations, the first configuration is a lap winding configuration, and the second configuration is a concentric winding configuration.

IPC 8 full level
H02K 3/12 (2006.01); **H02K 3/14** (2006.01)

CPC (source: EP KR US)
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Citation (applicant)
• US 6700258 B2 20040302 - MCMULLEN PATRICK T [US], et al
• US 6727617 B2 20040427 - MCMULLEN PATRICK T [US], et al
• US 2002175578 A1 20021128 - MCMULLEN PATRICK T [US], et al

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US 49645209 A 20090701; CA 2732271 A 20090728; CA 2732275 A 20090728; CA 2732998 A 20090728; CA 2732999 A 20090728; CA 2957201 A 20090728; CA 2957203 A 20090728; EP 09803505 A 20090728; EP 09803506 A 20090728; EP 09803510 A 20090728; EP 09803511 A 20090728; EP 11169229 A 20090728; EP 11169242 A 20090728; EP 11169245 A 20090728; EP 11169248 A 20090728; EP 11169254 A 20090728; EP 11169283 A 20090728; EP 11169285 A 20090728; EP 11169290 A 20090728; EP 11169293 A 20090728; JP 2011521255 A 20090728; JP 2011521257 A 20090728; JP 2011521258 A 20090728; JP 2011521259 A 20090728; KR 20117004557 A 20090728; KR 20117004567 A 20090728; KR 20117004591 A 20090728; KR 20117004592 A 20090728; US 2009052007 W 20090728; US 2009052011 W 20090728; US 2009052012 W 20090728; US 49636409 A 20090701; US 49641409 A 20090701; US 49645809 A 20090701; US 49648809 A 20090701; US 49649509 A 20090701; US 49651909 A 20090701; US 49655209 A 20090701; US 49658109 A 20090701; US 49661409 A 20090701; US 49661909 A 20090701; US 49662109 A 20090701; US 49662209 A 20090701